

Welcome to the ISIMIP-PROCLIAS cross-sectoral Workshop

16.-19.5.2022

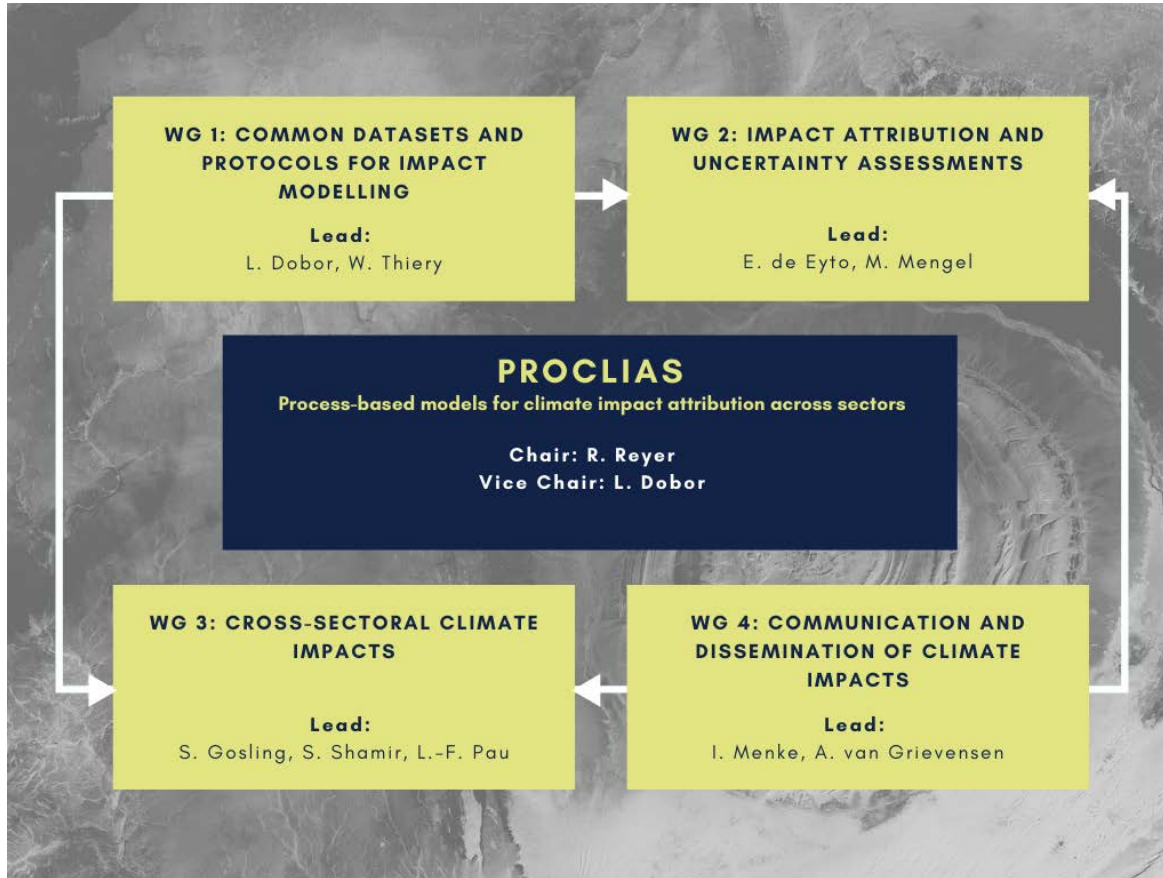
Katja Frieler & Christopher Reyer



Celebrating 30 years of
integrated climate impact research
at the Potsdam Institute.



PROCLIAS aims and structure



“in close cooperation with ISIMIP, PROCLIAS aims to develop common protocols, harmonized datasets and a joint understanding of how to conduct cross-sectoral, multi-model climate impact studies at regional and global scales allowing for attribution of impacts of recent climatic changes and robust projections of future climate impacts. “

PROCLIAS - Process-based models for climate impact attribution across sectors

- Allow new scientists to join the network and contribute to ISIMIP
- Allow new scientists to learn how to use climate impact models and the data they produce
- Go beyond ISIMIP

Scientific Discussions and Outreach events

WEBINAR

The role of impact science in climate litigation

15 September 2021
15:00 CEST
Zoom

REGISTER HERE

SPEAKERS
Dr. Heidi Wehrens, Partner, Rechtsanwälte Gander and Partner für Umwelt in Udo v. Pöhl
Sophie Marjaux, Lead, Climate Accountability, Climate
Dr. Noah Walker-Crawford, Research Fellow, Centre for Climate and Environmental Policy, Technische Universität München

PROCLIAS



expert round-table 2021 on
„Perspectives
of
forest modeling“

22th – 23th Sept. 2021

Vortragssaal Room 254
(Building 1.0, Level 1.)
Helmholtz Centre for Environmental
Research – UFZ
Permoserstraße 15
04318 Leipzig

Several Scientific
Exchange visits and
data training (physical
and virtual) have been
funded

Funded by European Union

 **cost**
EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY

PROCLIAS  **ISIMIP**
Inter-Sectoral Impact Model
Intercomparison Project

WEBINAR SERIES Climate impact attribution

27 Jan. 1pm CET	Classical climate change detection & attribution (G Hegerl)
3 Mar. 1pm CET	Attributing of extreme weather events (F Otto)
28 Apr. 1pm CET	Concepts of climate impact attribution (K Frieler & M Mengel)
9 May. 1pm CET	Machine-learning for climate impact attribution (M Callaghan & Q Lejeune)
23 May. 1pm CET	Attribution of European heavy rainfall event of July 2021 (J Tradosky)
14 Jun. 1pm CET	Attribution of crop production loss in West Africa (B Sultan)
5 Jul. 1pm CET	Attribution of physical changes in freshwater lake systems (L Grant)



ISIMIP
EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY
PROCLIAS

Webinar of COST Action CA19139 PROCLIAS: Introducing the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP)

Thursday, 17 Dec. 2020 from 10:00 to 11:30

ISIMIP - more than the sum of its pieces

Aggregation of impacts across sectors

- Economic damages: To what degree is climate change increasing poverty undermining the 'No poverty' SDG 1?
- Health: To what degree will climate-driven biomes shift affect malaria distribution?
- Water quality: To what degree will climate change amplify water quality degradation along the entire chain from fertilizer input along the rivers to coastal ecosystems?

Uncertainty assessment and model improvement within sectors

- Where does the spread in projected areas burned by wildfires come from?
- Do crop models systematically underestimate the impacts of drought and heatwaves?

ISIMIP - Special Topics

Impact attribution (tomorrow morning's session)

- What impacts of climate change on natural and human systems do we already observe?

Integration of mitigation measures and remaining impacts (next session)

- What is the combined effect of mitigation measures and remaining climate change on biodiversity?
- Will a renewable energy supply be more sensitive to weather fluctuations than the current one?
- What is the combined effect of mitigation measures and remaining impacts of climate change on global inequality?

ISIMIP and its potential for adaptation planning

Adaptation is still framed as a predominantly national or local issue...

... and it certainly is a national or local issue. So let's try to provide high resolution regional impacts projections (see next session on high resolution climate forcings)

... but it not only is. It also needs a global perspective as the impacts of climate change will propagate along trade networks, affect global financial markets and require international cooperation to ensure food security or manage shifting species distributions

Cross-Chapter Box INTEREG | Inter-regional Flows of Risks and Responses to Risk

Authors: Birgit Bednar-Friedl (Austria, Chapter 13), Christopher Trisos (South Africa, Chapter 9), Laura Astigarraga (Uruguay, Chapter 12), Magnus Benzie (Sweden/UK), Aditi Mukherji (India, Chapter 4), Maarten Van Aalst (the Netherlands, Chapter 16)

ISIMIP2 very successful and data still being used a lot

- 25 ISIMIP2b papers in 2021 (2x Science, 1x Nature, 1x PNAS, 6x Nat CC/Geosci/Comm)
- Still 4 ISIMIP2a in 2021




Globally observed trends in mean and extreme river flow attributed to climate change

[LUKAS GUDMUNDSSON](#) , [JULIEN BOULANGE](#) , [HONG X. DO](#) , [SIMON N. GOSLING](#) , [MANOLIS G. GRILLAKIS](#) , [ARISTEIDIS G. KOUTROULIS](#) 

[MICHAEL LEONARD](#) , [JUNGUO LIU](#) , [HANNES MÜLLER SCHMIED](#) , [LAMPRINI PAPADIMITRIOU](#) , [YADU POKHREL](#) , [SONIA I. SENEVIRATNE](#) , [YUSUKE SATOH](#)

, [WIM THIERY](#) , [SETH WESTRA](#) , [XUEBIN ZHANG](#) , AND [FANG ZHAO](#)  [fewer](#) [Authors Info & Affiliations](#)

Terrestrial biodiversity threatened by increasing global aridity velocity under high-level warming

[Hao Shi](#)^{a,b} , [Hanqin Tian](#)^{a,1}, [Stefan Lange](#)^c, [Jia Yang](#)^{a,d}, [Shufen Pan](#)^a , [Bojie Fu](#)^b, and [Christopher P. O. Reyer](#)^c 

Understanding each other's models: an introduction and a standard representation of 16 global water models to support intercomparison, improvement, and communication

[Camelia-Eliza Tefeu](#)¹, [Hannes Müller Schmied](#)^{1,2}, [Wim Thiery](#)³, [Guoyong Leng](#)⁴, [Peter Burek](#)⁵, [Xingcai Liu](#)⁴, [Julien Eric Stanislas Boulange](#)⁶, [Lauren Seaby Andersen](#)¹, [Manolis Grillakis](#)¹, [Simon Newland Gosling](#)⁷, [Yusuke Satoh](#)¹⁰, [Oldrich Rakovec](#)^{1,11,12}, [Tobias Stacke](#)¹³, [Jinfeng Chang](#)^{14,15}, [Niko Wanders](#)¹⁶, [Harsh Lovkumar Shah](#)¹⁷, [Tim Trautmann](#)¹, [Ganquan Mao](#)¹⁸, [Naota Hanasaki](#)¹, [Aristeidis Koutroulis](#)¹⁹, [Yadu Pokhrel](#)²⁰, [Luis Samaniego](#)¹¹, [Yoshihide Wada](#)²¹, [Vimal Mishra](#)¹⁷, [Junguo Liu](#)¹⁸, [Petra Döll](#)^{1,2}, [Fang Zhao](#)^{22,23}, [Anne Gadeke](#)²⁴, [Sam S. Rabin](#)²⁵, and [Florian Herz](#)¹

Effects of climate change on combined labour productivity and supply: an empirical, multi-model study

[Shourou Dasgupta](#), [Nicole van Maanen](#), [Simon N Gosling](#), [Franziska Piontek](#), [Christian Otta](#), [Car-Friedrich Schlemmer](#)



Article

Lake heatwaves under climate change

<https://doi.org/10.1038/s41586-020-03119-1> [R. Iestyn Woolway](#)^{1,2,3}, [Eleanor Jennings](#)¹, [Tom Shatwell](#)¹, [Malgorzata Golub](#)⁴, [Don C. Pierson](#)⁴ & [Stephen C. Maberly](#)⁵

Received: 15 April 2020

nature
climate change

ARTICLES

<https://doi.org/10.1038/s41586-021-01157-9>



Double benefit of limiting global warming for tropical cyclone exposure

[Tobias Geiger](#)^{1,2,3}, [Johannes Gütschow](#)¹, [David N. Bresch](#)^{3,4}, [Kerry Emanuel](#)⁵ and [Katja Frieler](#)¹

Strong representation of ISIMIP in IPCC AR6

Climate change reduces winter overland travel across the Pan-Arctic even under low-end global warming scenarios

Anne Gädeke¹, Moritz Langer^{2,3}, Julia Boike^{4,5}, Eleanor J Burke⁶, Jinfeng Chang^{4,6}, Melissa Head⁷, Christopher P O Reyler⁸, Sibyll Schaphoff⁹, Wim Thiery^{4,9} and Kirsten Thonicke¹

⇒cited in Chapter 13 and CCP6.2.4.3

Projecting Exposure to Extreme Climate Impact Events Across Six Event Categories and Three Spatial Scales

Stefan Lange^{1,2}, Jan Volkholz¹, Tobias Geiger^{1,2,3}, Fang Zhao⁴, Iliusi Vega¹, Ted Veldkamp^{4,5}, Christopher P. O. Reyler⁶, Lila Warszawski⁷, Veronika Huber⁸, Jonas Jägermeyr^{1,7,8}, Jacob Schewe⁹, David N. Bresch^{9,10}, Matthias Büchner⁹, Jinfeng Chang^{5,11}, Philippe Ciais¹¹, Marie Dury¹², Kerry Emanuel¹³, Christian Folberth¹⁰, Dieter Gerten^{1,14}, Simon N. Gosling¹⁵, Manolis Grillakis¹⁶, Naota Hanasaki¹⁷, Alexandra-Jane Henrot¹², Thomas Hickler^{18,19}, Yasushi Honda²⁰, Akihiko Ito¹⁷, Nikolay Khabarov²¹, Aristeidis Koutroulis²¹, Wenfeng Liu²², Christoph Müller¹, Kazuya Nishina¹⁷, Sebastian Ostberg¹, Hannes Müller Schmied^{18,19}, Sonia I. Seneviratne²³, Tobias Stacke²⁴, Jörg Steinkamp^{19,25}, Wim Thiery^{23,24}, Yoshihide Wada²⁶, Sven Willner¹, Hong Yang^{27,27}, Minoru Yoshikawa²⁸, Chao Yue^{11,29}, and Katja Frieler¹

⇒cited in Chapter 2 (3x), 4 and 16

Intergenerational inequities in exposure to climate extremes

Young generations are severely threatened by climate change

By Wim Thiery, Stefan Lange, Joeri Rogelj, Carl-Friedrich Schleussner, Lukas Gudmundsson, Sonia I. Seneviratne, Marina Andrijevic, Katja Frieler, Kerry Emanuel, Tobias Geiger, David N. Bresch, Fang Zhao, Sven N. Willner, Matthias Büchner, Jan Volkholz, Nico Bauer, Jinfeng Chang, Philippe Ciais, Marie Dury, Louis Francois, Manolis Grillakis, Simon N. Gosling, Naota Hanasaki, Thomas Hickler, Veronika Huber, Akihiko Ito, Jonas Jägermeyr, Nikolay Khabarov, Aristeidis Koutroulis, Wenfeng Liu, Wolfgang Lutz, Matthias Mengel, Christoph Müller, Sebastian Ostberg, Christopher P. O. Reyler, Tobias Stacke, Yoshihide Wada

⇒cited in Chapter 7 (2x), 9 (7x) and 13

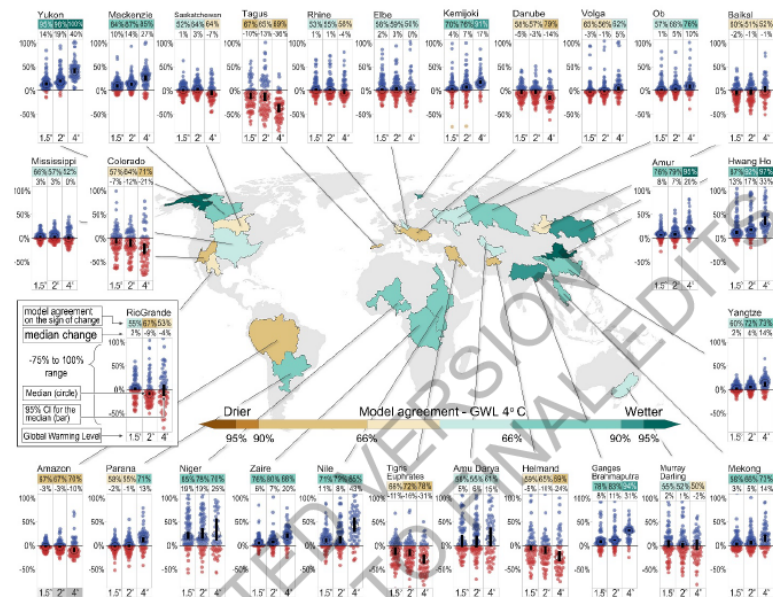


Figure 4.16: Projected changes in the annual mean run-off in selected river basins at Global Warming Levels (GWLs) of 1.5°C, 2°C and 4°C in a combined ensemble. For each named basin, the sinaplot dots show individual model outcomes for percentage increased flows (blue) and decreased flows (red) at each GWL. Black circles show the ensemble median, and black bars show the 95% confidence range in the median. See inset with the Rio Grande sinaplot for additional guidance on interpretation. In the map, the colours in the basins show the percentage model agreement on the sign of the projected change in streamflow at the 4°C GWL. The combined ensemble is comprised of 4 multi-model ensembles: the CMIP5 multi-model ensemble of GCMs driven with RCP8.5; the CMIP6 multi-model ensemble of GCMs driven with SSP5-85; varying combinations of hydrological models with 5 GCMs in the Inter-Sectoral Impacts Model Intercomparison Project (ISIMIP), and; the JULES land ecosystems and hydrology model driven by GCMs from the HELIX study (Betts et al., 2018; Koutroulis et al., 2019). In CMIP5 and CMIP6, the projected run-off changes are directly from the GCM land surface schemes without bias correction. In ISIMIP and HELIX, bias-corrected climate model outputs were used to drive the hydrology models. A comparison of the projected changes at the 4°C GWL for the four individual ensembles is shown in Figure Cross-Chapter Box CLIMATE.1 in Chapter 1.

⇒ISIMIP-related Figures in chap 4 and 5, e.g. 4.16

Strong representation of ISIMIP in IPCC AR6

Understanding the weather signal in national crop-yield variability

Katja Frieler¹, Bernhard Schaubert¹, Almut Arneht², Juraj Balkovič^{3,4}, James Chrystanthopoulos^{5,6}, Delphine Deryng^{7,8}, Joshua Elliott⁹, Christian Folberth³, Nikolay Khabarov³, Christoph Müller¹, Stefan Olin⁸, Thomas A. M. Pugh^{2,9}, Sibyll Schaphoff¹, Jacob Schewe¹, Erwin Schmid¹⁰, Lila Warszawski¹, and Anders Levermann^{1,11,12}

⇒ cited in Chapter 4

ARTICLE

<https://doi.org/10.1038/s41467-019-08745-6>

OPEN

State-of-the-art global models underestimate impacts from climate extremes

Jacob Schewe¹, Simon N. Gosling², Christopher Reyer¹, Fang Zhao³, Philippe Ciais⁴, Joshua Elliott⁵, Louis Francois⁶, Veronika Huber⁷, Heike K. Lotze⁸, Sonia I. Seneviratne⁹, Michelle T.H. van Vliet¹⁰, Robert Vautour⁴, Yoshihide Wada¹¹, Lutz Breuer^{12,13}, Matthias Büchner¹, David A. Carozza^{14,43}, Jinfeng Chang⁴, Marta Coll¹⁵, Delphine Deryng^{16,17}, Allard de Wit¹⁸, Tyler D. Eddy^{8,19,20}, Christian Folberth¹¹, Katja Frieler¹, Andrew D. Friend²¹, Dieter Gerten^{1,22}, Lukas Gudmundsson⁹, Naota Hanasaki²³, Akihiko Ito²³, Nikolay Khabarov¹¹, Hyungjun Kim²⁴, Peter Lawrence²⁵, Catherine Morfopoulos²⁶, Christoph Müller¹, Hannes Müller Schmied^{27,28}, René Orth^{29,30}, Sebastian Ostberg¹, Yadu Pokhrel³¹, Thomas A.M. Pugh^{32,33}, Gen Sakurai³⁴, Yusuke Satoh^{10,23}, Erwin Schmid³⁵, Tobias Stacke³⁶, Jeroen Steenbeek³⁷, Jörg Steinkamp^{28,44}, Qiuhong Tang³⁸, Hanqin Tian³⁹, Derek P. Tittensor^{8,40}, Jan Volkholz¹, Xuhui Wang^{4,41,42} & Lila Warszawski¹

⇒ cited in Chapter 4 (2x) and 5

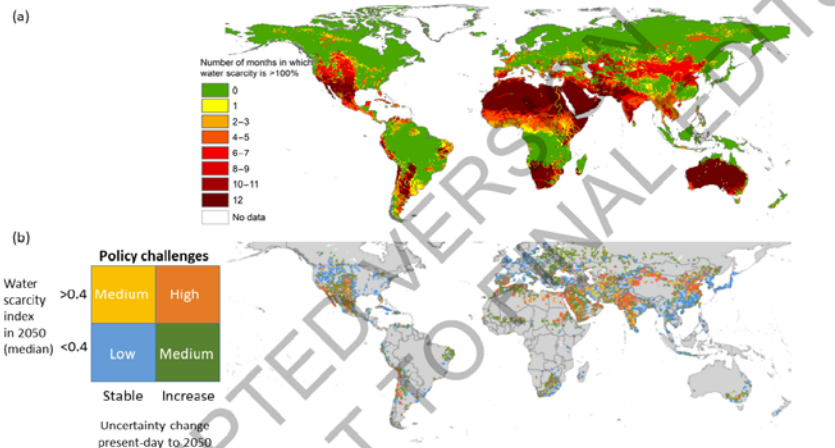


Figure Box 4.1.1: Geographical distributions of current water scarcity and levels of challenge for policies addressing future change. (a) The number of months per year with severe water scarcity (ratio of water demand to availability > 1.0). Reproduced from (Mekonnen and Hoekstra, 2016). (b) Local levels of policy challenges for addressing water scarcity by 2050, considering both the central estimate and the change uncertainty in projections of the Water Scarcity Index (WSI) from the present day to 2050 (Greve et al., 2018). Projections used five CMIP5 climate models, three global hydrological models from ISIMIP, and three Shared Socioeconomic Pathways (SSPs). Levels of policy challenges refer to the scale and nature of policies to address water scarcity and range from monitoring and reviewing risks ('low') through transitional changes in water systems ('medium') to transformational changes ('high'). Low policy challenges arise when the projected water scarcity in 2050 is lower (< 0.4), and the level of uncertainty remains relatively stable in future projections. Medium policy challenge arises when either the central estimate of water scarcity remains low, but uncertainty increases or the uncertainty is stable, but the central estimate of water scarcity for 2050 is higher (> 0.4). High policy challenges arise when the central estimate of water scarcity is higher and the uncertainty increases. Grey areas show gridpoints defined as non-water scarce (75th quantile of the WSI < 0.1 at all times) or very low average water demand. Hatched areas show countries with no data for at least one component. Reproduced from (Greve et al., 2018).

ISIMIP3 in full swing

- data from 17 (3a) and 31 (3b) models uploaded
- first papers published
- several Special issues planned (marine fisheries, regional water, impact attribution, ...)
- generation of future Direct Human Forcing (DHF) almost complete

nature climate change ARTICLES
https://doi.org/10.1038/s41558-021-01775-9

OPEN
Next-generation ensemble projections reveal higher climate risks for marine ecosystems

Derek P. Tittensor^{1,2}, Camilla Novaglio^{3,4}, Cheryl S. Harrison^{5,6}, Ryan F. Heneghan⁷, Nicolas Barrier⁸, Daniele Bianchi⁹, Laurent Bopp¹⁰, Andrea Bryndum-Buchholz¹¹, Gregory L. Britten¹², Matthias Büchner¹³, William W. L. Cheung¹⁴, Villy Christensen¹⁵, Marfa Coll^{16,17}, John P. Dunne¹⁸, Tyler D. Eddy¹⁹, Jason D. Everett^{18,20}, Jose A. Fernandes-Salvador²¹, Elizabeth A. Fulton^{22,23}, Eric D. Galbraith²⁴, Didier Gascuel²⁵, Jerome Gulev²⁶, Jasmin G. John²⁷, Jason S. Link²⁸, Heike K. Lotze²⁹, Olivier Maury³⁰, Kelly Ortega-Cisneros³¹, Julliano Palacios-Abrantes^{32,33}, Colleen M. Petrik³⁴, Hubert du Pontavice^{35,36}, Jonathan Rault³⁷, Anthony J. Richardson^{38,39}, Lynne Shannon⁴⁰, Yunne-Jai Shin⁴¹, Jeroen Steenbeek⁴², Charles A. Stock⁴³ and Julia L. Blanchard⁴⁴

⇒cited in Chapter 3 (7x)

ENVIRONMENTAL RESEARCH LETTERS

LETTER

Evidence of rapid adaptation integrated into projections of temperature-related excess mortality

Veronika Huber^{1,2,*}, Cristina Peña Ortiz¹, David Gallego Puyol¹, Stefan Lange³ and Francesco Sera^{4,5}

nature food ARTICLES
https://doi.org/10.1038/s43016-021-00400-7

Climate impacts on global agriculture emerge earlier in new generation of climate and crop models

Jonas Jägermeyr^{1,2,3}, Christoph Müller⁴, Alex C. Ruane⁵, Joshua Elliott⁶, Juraj Balkovic⁶, Oscar Castillo⁷, Babacar Faye⁸, Ian Foster⁹, Christian Folberth¹⁰, James A. Franke¹¹, Kathrin Fuchs¹², Jose R. Guarin¹³, Jens Heinke¹⁴, Gerrit Hoogenboom¹⁵, Toshichika Izumi¹⁶, Atul K. Jain¹⁷, David Kelly¹⁸, Nikolay Khabarov¹⁹, Stefan Lange²⁰, Tzu-Shun Lin²¹, Wenfeng Liu²², Oleksandr Mialyk²³, Sara Minoli²⁴, Elisabeth J. Moyer²⁵, Masashi Okada²⁶, Meridel Phillips²⁷, Cheryl Porter²⁸, Sam S. Rabin²⁹, Clemens Scheer³⁰, Julia M. Schneider³¹, Joep F. Schyns³², Rastislav Skalsky^{33,34}, Andrew Smerald³⁵, Tommaso Stella³⁶, Haynes Stephens³⁷, Heidi Webber³⁸, Florian Zabel³⁹ and Cynthia Rosenzweig⁴⁰

⇒cited in Chapter 5

ISIpedia: the open climate-impacts encyclopedia

- **New repository** (data.isimip.org/): Highly convenient access to ISIMIP data
- **Interactive protocol**: combine sectors, print out pdf, save permalinks, quality check for data submission
- **ISIpedia launched**: peer-reviewed papers translated into 17 ISIpedia articles.
- **First step towards a continuous collection of impacts attribution studies**: ISIpedia article to access reference tables behind Ch16 observed impacts
- **Visualisation of ISIMIP data**: Could we use the WGI-Atlas technology to also provide access ISIMIP data? Hans-Martin Füssel (EEA) in context of the EU Climate Risk Assessment within the EU adaptation strategy? (outreach session on Wednesday afternoon)

New Sector coordinators and Sectors

Lakes: **Daniel Mercado-Betin**, Institut Català de Recerca de l'Aigua, Universidad de Antioquia, Columbia

Global Biomes: **Jinfeng Chang**, College of Environmental and Resource Sciences, Zhejiang University, China

Labour: **Shouro Dasgupta**, CMCC/Università Ca' Foscari Venezia, Italy

Energy Fluctuations and Extremes: **James Glynn**, Center on Global Energy Policy, Columbia, USA, **Michelle van Vliet**, Department of Physical Geography, Utrecht University, The Netherlands

Peat: **Sarah Chadburn**, **Angela Gallego-Sala**, **Noah Smith**, University of Exeter/MOTHERSHIP project, UK

The next days

Time (UTC+2)	Monday 16 May		Tuesday 17 May		Wednesday 18 May		Thursday 19 May	
9:00-10:30	Registration		Plenary: Climate Impact Attribution and Uncertainty Assessment (PROCLIAS WG 2) (9:00-10:30)		Plenary: Cross-sectoral climate impacts (PROCLIAS WG 3) (9:00-10:45)			Sector meeting: Fisheries and Marine Ecosystems (8:00-9:00)
10:30-12:30	Sector meeting: Lakes (10:30-12:30)	Sector meeting: Water regional (1) (10:30-12:30)	Coffee Break (10:30-11:00)		15 min Break		Sector meeting: Water regional (2) (9:30-11:30)	Sector meeting: Forest (10:00-11:30)
			<ul style="list-style-type: none"> Vulnerability and exposure modeling Water Quality (TG3.9) (11:00-12:30) 	Break-out session: Open exchange on methods for climate impact attribution (11:00-12:30)	Parallel Break-out sessions: Cross-sectoral climate impacts (TG3.5, 3.7, 3.11) (11:00-12:00)			
						'hot model' issue in CMIP6 climate projections (12:00-12:30)	Closed session: Paper writing (11:30-13:00)	<u>ISIMIP Chelsa workshop</u> (11:45-12:30)
12:30-13:30	Lunch Break							
13:30-14:30	Opening Session Keynote: Johan Rockström (PIK) (13:30-14:30)		Keynotes: Cath Senior (Met Office) Jakob Zscheischler (UFZ) (13:30-14:30)		Plenary: Communication and dissemination of climate impacts (PROCLIAS WG 4) (13:30-15:00)		<u>ISIMIP Chelsa workshop</u> (13:30-18:30)	
	5 min Break		5 min Break		5 min Break			
14:35-15:45	Plenary: ISIMIP data and protocols (PROCLIAS WG 1) (14:35-15:45)		Sector meeting: Labour (14:35-15:35)	Sector meeting: Biomes, Fire, Permafrost (14:35-15:35)	Parallel Break-out sessions: Communication and dissemination of climate impacts (15:05-15:40)			Closed Session: ISIMIP SAB meeting (15:00-16:30)
15:45-16:10	Coffee Break and Group Photo (15:45-16:10)		Coffee Break and Poster session (15:35-16:15)		Coffee Break (15:40-16:00)			
16:10-17:40	Parallel Break-out sessions: ISIMIP data and protocols (TG1.1, 1.2, 1.3, 1.7) (16:10-17:40)		Parallel Sector meetings: Water global, Health, Agriculture, Energy fluctuations and Extremes, Peat (16:15-18:15)		Keynotes and closing remarks: Camille Parnes (CNRS, UoP, UoFTx) Brian O'Neill (PNL) Closing remarks (Katja Frieler) (16:00-17:30)			
17:40-19:00	Welcome Reception (17:40)				Conference Dinner (18:30)			
19:00			Conference Dinner (19:00)					

Your task: Discuss and network to push the science

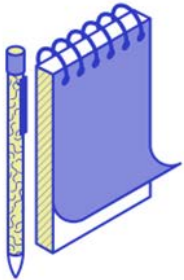
- Discuss results, simulations, paper plans, project proposals etc..
- Call for PROCLIAS Short Term Scientific Missions (STSM) is open
- Engage in existing Task Groups and propose new ones

PROCLIAS TG1.2: Automatic QC/QA

Negative soil moisture?

Trees higher than 130m?

—
QUALITY MATTERS



**Estimate
plausibility
ranges of
model
outputs!**

- You want to work with plausible model outputs and would like to detect errors in the variables as a modeller (e.g. due to erroneous data conversion)?
- The ISIMIP quality-control (QC) tool includes **a check against plausible min/max-values**.
- We need **YOUR** expertise to set those plausibility limits!
- Watch out for the posters in the venue and let's try to collect values for each variable. Thank you!
- Ask Hannes Müller-Schmied or Laura Dobor

Meeting etiquette and housekeeping issues

- mandatory to sign participants lists and confirm negative COVID tests every day
- get a new badge
- wear your masks
- we have physical only, hybrid and “online only” sessions ⇒ behave accordingly...
- Zoom links are only available upon registration and should not be further shared
- all presenters are welcome to make their slides available on the ISIMIP and PROCLIAS website (Martin will follow-up)
- in case of any organisational questions refer to martin.park@pik-potsdam.de
- for questions regarding the PROCLIAS funding ask Antonia Mayer (antoniam@pik-potsdam.de)
- group picture

Key links

<https://www.isimip.org/>

<https://data.isimip.org/>

<https://www.isipedia.org/>

<https://twitter.com/ISIMIPImpacts>

<https://proclias.eu/>

<https://twitter.com/climateimpacts>

join PROCLIAS WGs here: <https://www.cost.eu/cost-action/process-based-models-for-climate-impact-attribution-across-sectors/#tabs+Name:Working%20Groups%20and%20Membership>



ISIMIP Community Awards

Awards ceremony: Sector coordination



Awards ceremony: Sector coordination

Sector coordinators having left:

- Malgorzata Golub (Lakes)
- Anne Gädeke (Permafrost)
- Kirsten Thonicke (Permafrost)
- Almut Arneth (Agriculture)
- Detlev v. Vuuren (Energy)

THANK YOU FOR SUPPORTING ISIMIP



Maillot jaune - the most complete ISIMIP3 data submission:



Maillot jaune - the most complete ISIMIP3 data submission:

- Akihito Ito, National Institute for Environmental Studies (VISIT model)
- Hannes Müller-Schmied, University of Frankfurt (WaterGAP2-2e model)



The next hours... until the party...

13:30-14:30	<u>Opening session</u> A56: Conference hall	Katja Frieler, Christopher Reyer
	- Introductory Keynote : Johan Rockström, PIK	
	5 min break	
14:35-15:45	<u>Plenary: ISIMIP data and protocols for climate impact modeling (PROCLIAS WG 1)</u> A56: Conference hall	Laura Dobor , Wim Thiery, Stefan Lange
15:45-16:10	Group Photo and Coffee break	
16:10-17:40	<u>Break out session 1: ISIMIP Land use patterns (TG 1.1)</u> A56 Telepresence room (0.38)	Miodrag Stevanovic , Christopher Reyer
	<u>Break out session 2: ISIMIP High resolution climate forcing data and experiments (TG 1.7)</u> A56 Conference hall	Dirk Karger , Stefan Lange, Christopher Reyer
	<u>Break out session 3: Automatic quality check / quality assessment of impact model output (TG 1.2)</u> House H, VR1	Hannes Müller Schmied
	<u>Break out session 4: New data (TG 1.3)</u> House H, VR3	Ann van Griensven , Alo Laas
18:00	<u>Welcome Reception</u> : A56: Terrace in front of Conference hall	

- Helmholtz Centre Potsdam German Research Centre for Geosciences - GFZ
- Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI)
- Potsdam Institute for Climate Impact Research (PIK)
- Leibniz Institute for Astrophysics Potsdam (AIP)
- Germany's National Meteorological Service Potsdam (DWD)
- Buildings in shared use



A56: Always use staircase and elevator in "Sonne"